MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Product Name Phase III Acid Test Kit (S) (4320S)

(To be used in conjunction with Phase III Refrigeration Oil Test Reagent (L)(4320L)

CAS # Mixture
Product use Acid test kit
Manufacturer Nu-Calgon

2008 Altom Court St. Louis, MO 63146 US

Phone: 314-469-7000 / 800-554-5499

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Emergency overview Contact may cause eye and skin irritation.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin Prolonged exposure may cause skin irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

OSHA Regulatory Status This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects This product has not been tested.

3. Composition / Information on Ingredients

Composition comments This product is considered non hazardous by WHMIS/OSHA criteria.

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that

medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

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Unsuitable extinguishing media

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

May include and are not limited to: Oxides of sodium. Oxides of phosphorus.

Sensitivity to mechanical impact Not available
Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Environmental precautions Do not discharge into lakes, streams, ponds or public waters.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

Methods for cleaning up Before attempting clean up, refer to hazard data given above. Small spills may be

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Avoid contact with skin and clothing. Avoid contact with eyes.

Avoid breathing vapors or mists of this product. Keep container tightly closed.

Use only with adequate ventilation. Wash thoroughly after handling.

Storage Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Engineering controls General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection Follow standard industrial hygiene practices. Rubber gloves. Confirm with a

reputable supplier first.

Skin and body protection

Respiratory protection

As required by employer code.

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General hygiene considerations

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

AppearanceClear.ColorColorlessFormLiquid

OdorCharacteristicOdor thresholdNot available

Physical state Liquid

pH 10.9 (Concentrate)

Melting point Not available

Freezing point Not available

Boiling point Not available

Pour point Not available

Evaporation rate Not available

Flash point Not available

Auto-ignition temperature Not available Flammability limits in air, lower, %

by volume

Not available

Flammability limits in air, upper, %

by volume

Percent volatile

Not available

Not available Vapor pressure Not available Vapor density 0.9048 Specific gravity Octanol/water coefficient Not available Complete Solubility (H2O) VOC (Weight %) Not available **Viscosity** Not available 7.54 lbs/gallon **Bulk density**

10. Stability and Reactivity

Reactivity This product may react with strong acids. Possibility of hazardous reactions Hazardous polymerization does not occur. Stable under recommended storage conditions. Chemical stability

Not available

Conditions to avoid None known. Caustics. Acids. Incompatible materials

Hazardous decomposition products May include and are not limited to: Oxides of sodium. Oxides of phosphorus.

11. Toxicological Information

Effects of acute exposure

Eve May cause irritation.

Skin Prolonged exposure may cause skin irritation.

May cause respiratory tract irritation. Inhalation

May cause stomach distress, nausea or vomiting. Ingestion

Sensitization Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Chronic effects Non-hazardous by WHMIS/OSHA criteria. Carcinogenicity Non-hazardous by WHMIS/OSHA criteria. Mutagenicity Non-hazardous by WHMIS/OSHA criteria. Reproductive effects Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity**

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

Components of this product have been identified as having potential environmental **Ecotoxicity**

concerns.

Persistence / degradability Not available Not available Bioaccumulation / accumulation Mobility in environmental media Not available Not available **Environmental effects** Not available Aquatic toxicity Not available Partition coefficient Not available Chemical fate information Other adverse effects Not available

13. Disposal Considerations

Dispose in accordance with all applicable regulations. **Disposal instructions**

Waste from residues / unused

products

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Not available

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14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

WHMIS status Not Controlled

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

INO

US Federal regulations This pro

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA

Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Potassium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Nο

Section 311 hazardous chemical No

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory name

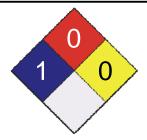
Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information







Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Nu-Calgon Technical Service (314) 469-7000

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.